

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) An activated alumina catalyst comprising a cocatalytically effective amount of sodium values for conversion of CS₂, said effective amount, expressed by weight of Na₂O, ranging from 1,200 pm to 2,500 ppm.
2. (Previously Presented) The activated alumina catalyst as defined by Claim 1, said effective amount, expressed by weight of Na₂O, ranging from 1,500 ppm to 2,500 ppm.
3. (Previously Presented) The activated alumina catalyst as defined by Claim 2, said effective amount, expressed by weight of Na₂O, ranging from 1,700 ppm to 2,200 ppm.
4. (Previously Presented) The activated alumina catalyst as defined by Claim 1, further comprising silica and/or at least one oxide of titanium, zirconium, cerium, tin, a rare earth, molybdenum, cobalt, nickel or iron.

5. (Previously Presented) The activated alumina catalyst as defined by Claim 1, further comprising a clay, a silicate, an alkaline earth metal or ammonium sulfate, ceramic fibers, asbestos fibers, or combination thereof.

6. (Previously Presented) The activated alumina catalyst as defined by Claim 1, further comprising cellulose, carboxymethyl cellulose, carboxyethyl cellulose, tallol, a xanthan gum, a surface-active agent, a flocculating agent, a polyacrylamide, carbon black, a starch, stearic acid, polyacrylic alcohol, polyvinyl alcohol, a biopolymer, glucose, a polyethylene glycol, or combination thereof.

7. (Previously Presented) The activated alumina catalyst as defined by Claim 1, comprising extrudates, tablets, or beads thereof.

8. (Previously Presented) The activated alumina catalyst as defined by Claim 7, comprising a plurality of beads having a diameter size ranging from 1.5 mm to 10 mm.

9. (Previously Presented) The activated alumina catalyst as defined by Claim 8, said beads having a diameter size ranging from 3 mm to 7 mm.

10. (Previously Presented) The activated alumina catalyst as defined by Claim 1, deposited onto support substrate therefor.

11. (Previously Presented) A catalyst comprising at least 0.5% by weight of an activated alumina catalyst comprising a cocatalytically effective amount of sodium values, said effective amount, expressed by weight of Na_2O , ranging from 1,200 ppm to 2,700 ppm.

12. (Previously Presented) A catalyst comprising from 60% to 99% by weight of activated alumina catalyst comprising a cocatalytically effective amount of sodium values, said effective amount, expressed by weight of Na_2O , ranging from 1,200 ppm to 2,700 ppm.

13. (Previously Presented) In a catalyzed Claus reaction for the production of elemental sulfur, the improvement which comprises, as the catalyst therefor, an activated alumina catalyst comprising a cocatalytically effective amount of sodium values, said effective amount, expressed by weight of Na_2O , ranging from 1,200 ppm to 2,700 ppm.

14. (Previously Presented) In a process for the catalyzed hydrolysis of an organosulfur compound, the improvement which comprises, as the catalyst therefor, an activated alumina catalyst comprising a cocatalytically effective amount of sodium values, said effective amount, expressed by weight of Na_2O , ranging from 1,200 ppm to 2,700 ppm.

15. (Previously Presented) In a process for catalytically removing objectionable sulfur compounds from gaseous effluents comprised thereof, the

improvement which comprises, as the catalyst therefor, an activated alumina catalyst comprising a cocatalytically effective amount of sodium values, said effective amount, expressed by weight of Na_2O , ranging from 1,200 ppm to 2,700 ppm.

16. (Previously Presented) The activated alumina catalyst as defined by Claim 1, wherein the catalyst has a specific surface of 350 to 370 m^2/g .

17. (Previously Presented) The catalyst as defined by Claim 11, wherein the catalyst has a specific surface of 350 to 370 m^2/g .

18. (Previously Presented) The catalyst as defined by Claim 12, wherein the catalyst has a specific surface of 350 to 370 m^2/g .

19. (Previously Presented) The reaction as defined by Claim 13, wherein the catalyst has a specific surface of 350 to 370 m^2/g .

20. (Previously Presented) The process as defined by Claim 14, wherein the catalyst has a specific surface of 350 to 370 m^2/g .

21. (Previously Presented) The process as defined by Claim 15, wherein the catalyst has a specific surface of 350 to 370 m^2/g .

22. (Previously Presented) The activated alumina catalyst as defined by Claim 1, comprising beads having a diameter of 3.1 to 6.3 mm and specific surface area of 350 to 370 m²/g.

23. (Previously Presented) The activated alumina catalyst as defined by Claim 1, comprising beads having pore volume of alumina of pores of diameter greater than 0.1 µm of 18.5 ml/100g and pore volume of pores of alumina of diameter greater than 1 µm of 15.5 ml/100g.